

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended)

A process for the production of at least one peptide of interest from a biological fluid which comprises the steps of:

- a) contacting said biological fluid comprising at least one protein which contains the amino acid sequence of said peptide of interest with a chromatographic medium selected from the group consisting of a cation exchange, an anion exchange and medium for hydrophobic interaction chromatography to absorb said protein containing said sequence,
- b) subjecting said adsorbed material to hydrolysis to fragment said protein and produce said peptide which remains substantially adsorbed,
- c) washing the medium to remove unbound material;
- d) desorbing said remained substantially adsorbed peptide from said chromatographic medium and, optionally,
- e) further purifying said desorbed peptide of interest.

Claim 2 (previously submitted)

The process according to claim 1, further comprising before step b), the step of washing the medium to remove unbound material.

Claim 3 (previously presented)

The process according to claim 1, wherein said chromatographic medium is a cation-exchange.

Claim 4 (previously presented)

The process according to claim 1, wherein said chromatographic medium is an anion-exchange.

Claim 5 (previously presented)

The process according to claim 1, wherein said chromatographic medium is a medium for hydrophobic interaction chromatography.

Claim 6 (previously presented)

The process according to claim 1, wherein said chromatographic medium is a medium for affinity chromatography.

Claim 7 (previously presented)

The process according to claim 1, wherein said chromatographic medium comprises a chromatographic membrane.

Claim 8 (previously presented)

The process according to claim 1, wherein the hydrolysis is carried out enzymatically.

Claim 9 (previously presented)

The process according to claim 8, wherein one or more enzymes used are selected from the group of pepsin, chymosin, trypsin, plasmin, chymotrypsin, subtilisin, and thermolysin.

Claim 10 (previously presented)

The process according to claim 1, wherein the biological fluid is selected from the group consisting of milk, whey, blood, blood serum, egg white, culture cells, extracts from culture cells, and plant cells.

Claim 11 (cancelled)

Claims 12 to 14 (cancelled)